



STS-122 Launch Weather Forecast

Vehicle: Atlantis / Columbus Laboratory

Issued: 4 February 2008 0700 EST

Valid: 7 February 2008 2:40 p.m. – 2:50 p.m. EST

Synoptic Discussion: High pressure will dominate the Central Florida area for the next few days, and temperatures will be above average with highs reaching the low 80s. A cold front will move into the Central Florida area on launch day, bringing concerns for showers by launch time. **Our primary concerns for launch day are cumulus clouds and showers.** The front will move through the area early Friday morning, and weather conditions improve for the 24- and 48-hour launch attempts.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	3/8 Scattered	2,000	5,000
Altocumulus	5/8 Broken	8,000	10,000
Cirrostratus	8/8 Overcast	20,000	24,000
Weather: Showers			
Visibility: 7 miles			
Wind: 340° @ 8 P 12KT (60 foot pad winds)			
Temperature: 72°F		RH: 66%	Dewpoint: 62°F

Probability of KSC weather prohibiting launch:	60%
Probability of KSC weather prohibiting tanking:	10%
Primary concern(s): Cumulus Clouds, Showers	
Probability of KSC weather prohibiting launch for 24-hour delay:	20%
Probability of KSC weather prohibiting tanking:	10%
Primary concern(s): Launch Winds	
Probability of KSC weather prohibiting launch for 48-hour delay:	20%
Probability of KSC weather prohibiting tanking:	0%
Primary concern(s): Launch Winds	

Sunrise:	7/0707 EST 8/0706 EST 9/0706 EST	Sunset:	7/1807 EST 8/1807 EST 9/1808 EST	
Moonrise:	7/0727 EST 8/0801 EST 9/0833 EST	Moonset:	7/1850 EST 8/1952 EST 9/2053 EST	Illumination: 7 February: 0% 8 February: 3% 9 February: 8%

Next forecast will be issued: 5 February 2008, 0700 EST